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# 2002 Volunteer Salmon Watcher Program

Lake Washington Watershed and Vashon Island

July 2003

Jennifer Vanderhoof, King County Water and Land Resources Division

King County Water and Land Resources Division, in cooperation with:
Lake Washington/Cedar/Sammamish Watershed Forum
Central Puget Sound Watershed Forum
King Conservation District
Snohomish County Surface Water Management
Bellevue Stream Team
Cities of Bothell, Issaquah, Kirkland, Redmond, Renton, Seattle, and Woodinville

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### **Summary**

In 1996, the Bellevue Stream Team, King County Water and Land Resources Division, the Muckleshoot Indian Tribe, the Snohomish County Surface Water Management Division, and the Washington Department of Fish and Wildlife began a jointly coordinated volunteer spawning survey program in the Lake Washington Watershed (all waters draining through the Ballard Locks). In 1997, the program evolved into the Salmon Watcher Program as it is today and has been conducted annually since. The purpose of the program is to document the distribution of spawning adult salmon throughout the basin via an active public outreach and education program, and subsequently consolidate all the information into a single resource (this report). These data can be used by policy makers and the public to improve how aquatic resources are managed, to protect salmon and trout species, and to enhance their habitat.

For the 2002 program, 151 volunteers surveyed 175 sites on 66 streams throughout the Lake Washington Watershed and Vashon Island streams from late August 2002 to February 2003. Because volunteers collect the data in this program, the agencies are able to obtain information from far more locations than would otherwise be possible. However, data in this report should be used with the following factors in mind:

- (1) Volunteer expertise in locating and identifying fish species varied from very high to very low;
- (2) Coverage of streams by volunteers was by no means complete; therefore, fish distribution information is not complete;
- (3) Volunteers view stream sites for relatively brief periods of time during the spawning season;
- (4) Determination of survey sites was based on volunteer availability and site accessibility (and some survey locations change from year to year, even on the same creek);
- (5) Spawning fish can be difficult to see and therefore may have passed through reaches undetected; and
- (6) Volunteer data indicate only where minimum fish distributions extend to, but do not indicate reaches where fish are definitively absent (in other words, the data confirms fish presence, but does not confirm absence).

Volunteers observed the following species: sockeye, chinook, coho, kokanee, and chum salmon, as well as trout species (rainbow or cutthroat). Steelhead trout were also reported but not verified. The following results were compiled from volunteer observations: (1) coho had the widest distribution throughout the official survey area (23 streams); (2) sockeye were seen in the greatest numbers by far (over 28,000 enumerated); (3) chinook were observed in 6 Lake Washington basins; and (4) kokanee observations were verified in five Lake Washington basins.

Maps included in this report have been published on the Internet, and can be found using the hyperlinks on this web page: <a href="http://dnr.metrokc.gov/wlr/waterres/salmon/maps.htm">http://dnr.metrokc.gov/wlr/waterres/salmon/maps.htm</a> (To return to this document, click the Back Button in your browser)

### **Acknowledgements**

Many thanks to all the dedicated volunteers for spending many hours in cold and wet weather to collect the information for this report—sometimes for the sixth year in a row, and sometimes without ever seeing a single fish. Without the volunteers there would be no data, no maps, no report. They help make a positive difference here in the Northwest, not only by reporting fish species, but by acting as the eyes and ears of the streams, reporting stream blockages as well as illegal and other suspect activities. You are true stewards of the resources that make the Pacific Northwest so special. A *huge* Thank You!

We also want to acknowledge the various individuals from the cooperating jurisdictions. Every year these folks meet and plan the program, organize and stage the training sessions, and invest lots of time attending to the questions of the volunteers. Thanks (in no particular order) to Roger Kelley, Laura Reed, Bob Spencer, Debra Crawford, Scott Gonsar, Peter Holte, Carla Milesi, Laurie Devereaux, Chrys Bertolotto, Maureen Meehan, Jim Mattila, Kit Paulsen, Robert Fuerstenberg, Gino Luchetti, Ruth Schaefer, Katie Sauter, Jessica Kuchan, and Katy Vanderpool.

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## **Table of Contents**

Summaryi
Acknowledgementsii
Table of Contentsiii
List of Tablesiv
List of Figuresv
Introduction
Methods
Volunteer Training
Data Collection
Quality Assurance/Quality Control
Results and Discussion
Basin Summary6
Big Bear Creek Basin
Cedar River Basin
East Lake Washington Basin
Issaquah Creek Basin14
North Lake Washington Tributaries16
Sammamish River Tributaries19
West Lake Sammamish Basin21
West Lake Washington Basin21
Vashon Island
Central Puget Sound24
Volunteer Activity
Contact with Citizens26
Time Spent by Volunteers26
Limitations of Volunteer Data26
Species Summary
Tagged Fish
Chinook Salmon
Sockeye Salmon
Coho Salmon
Kokanee
Chum
Other Species
References
Appendices
Snoqualmie Basin

## **List of Tables**

Table 1. Volunteer observers for the 2002 Salmon Watcher Program.	2
Table 2. Numbers of sites, streams, and volunteers involved in the 2002 spawning season	
Table 3. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the Big Bear Creek	
Basin for the 2002 spawning season	
Big Bear Creek Basin for the 2002 spawning season.	
Table 5. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the Cedar River Basin for the 2002 spawning season	10
Table 6. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the Cedar River Basin for the 2002 spawning season	
Table 7. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the East Lake Washington Basin for the 2002 spawning season	13
Table 8. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the East Lake Washington Basin for the 2002 spawning season.	
Table 9. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the Issaquah Creek Basin for the 2002 spawning season.	14
Table 10. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the Issaquah Creek Basin for the 2002 spawning season	1
Table 11. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the North Lake Washington Tributaries for the 2002 spawning season	16
Table 12. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the North Lake Washington Tributaries for the 2002 spawning season.	
Table 13. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the Sammamish River Tributaries for the 2002 spawning season.	19
Table 14. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the Sammamish River Tributaries for the 2002 spawning season	
Table 15. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the West Lake	
Sammamish Basin for the 2002 spawning season.  Table 16. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in the Sammamish River Tributaries for the 2002 spawning season.	
Table 17. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the West Lake Washington Basin for the 2002 spawning season	2 <sup>2</sup>
Table 18. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed on Vashon Island for the 2002 spawning season.	
Table 19. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed on Vashon Island for the 2002 spawning season.	
Table 20. Stream number, site ID, site location, survey dates, total number of surveys, number of volunteers, and years the sites were watched for each stream surveyed in the Central Puget Sound for the 2002 spawning season.	
Table 21. Site ID, RM, and fish counts (live and dead) with dates seen at each stream surveyed in Central Puget Sound for the 2002 spawning season.	
Table 22. Number of citizen contacts made by all Salmon Watcher volunteers in each of the surveyed basins.	26
Table 23. Number of hours spent by Salmon Watcher volunteers in each of the surveyed basins	26

## **List of Figures**

Figure 1. Basins surveyed for the 2002 Salmon Watcher Program.	1
Figure 2. Sites in the Lake Washington Basins and Vashon Island surveyed by Salmon Watcher volunteers in 2002	3
Figure 3. Number of new and returning volunteers surveying in the Lake Washington Watershed	
for each year of the Salmon Watcher Program.	5
Figure 4. Observations of salmonids in the Big Bear Creek Basin	9
Figure 5. Observations of salmonids in the Cedar River Basin.	11
Figure 6. Observations of salmonids in the East Lake Washington Basin	14
Figure 7. Observations of salmonids in the Issaquah Creek Basin	15
Figure 8. Observations of salmonids in the North Lake Washington Tributaries	18
Figure 9. Observations of salmonids in the Sammamish River Tributaries	20
Figure 10. Observations of salmonids on Vashon Island.	22
Figure 11. Number of volunteers (defined as an individual, pair, or group) watching in the Lake Washington Watershed and Vashon Island and number of sites and streams watched from 1997-2002.	25
	20
Figure 12. Percentage of total fish observed in 2002 by volunteers in (a) the Lake Washington Watershed and in (b) Vashon Island.	28
Figure 13. Distribution of chinook salmon in the program area based on Salmon Watcher	20
observations.	30
Figure 14. Distribution of sockeye salmon in the program area based on Salmon Watcher	30
observations.	3U
Figure 15. Distribution of coho salmon in the program area based on Salmon Watcher observations	31
	_
igure 16. Distribution of kokanee in the program area based on Salmon Watcher observations	ನ 1

#### Introduction

The Salmon Watcher Program is a volunteer program that originated in 1996 and whose purpose is to record observations of adult fall-spawning salmonids. Through the program, volunteers are recruited and trained to identify and watch for spawning salmon throughout the Lake Washington Watershed and on Vashon Island (Figure 1). Regional agencies who participate in the Salmon Watcher Program along with King County include the Bellevue Stream Team, Snohomish County Surface Water Management, and the cities of Bothell, Issaquah, Kirkland, Redmond, Renton, Seattle, and Woodinville.

The Salmon Watcher Program was initiated to expand on current efforts undertaken by resource agencies to document the distribution of spawning salmon in the Lake Washington Watershed. Basins that comprise the Lake Washington Watershed include Bear Creek, Cedar River, East Lake Washington, West Lake Washington, Issaquah Creek, North Lake Washington, East Lake Sammamish, and West Lake Sammamish. In 2001, Central Puget Sound drainages were observed as part of the Salmon Watcher Program, but in 2002, of the Central Puget Sound area, only Vashon Island was officially part of the program.

Salmon Watcher volunteers annually collect information on the presence of fall-spawning salmonids, including chinook, coho, sockeye, kokanee (resident form of sockeye), and chum salmon, as well as steelhead and resident trout species. Data of this type become more important as salmonids in the region, such as Puget Sound chinook, are listed under the Endangered Species Act.

Because volunteers do this work, this task is accomplished with reduced resources, and the watersheds' residents can become involved and educated at the same time. Further, interactions with agency personnel foster positive relationships between the public and government agencies. With monetary and temporal constraints of agency personnel, much of the data collected in this effort could not be collected otherwise.

In addition to summaries of fish observed during the fall season, this 2002 report contains information about the activity of the volunteers. It should be noted that this report summarizes data collected only by Salmon Watcher volunteers, and it is therefore in no way intended to be an exhaustive report of fish distribution in the Lake Washington Watershed or Central Puget Sound. Other fish surveys are conducted annually by county, state, city, and federal agencies and non-profit organizations. For example, surveys have been conducted by volunteers or County staff to look specifically for kokanee and chinook; the results of these surveys are reported separately and are not included here.

#### Figure 1. Basins surveyed for the 2002 Salmon Watcher Program

(http://dnr.metrokc.gov/wlr/waterres/salmon/Maps/2002/0306SurveyedBasins.pdf).

This link will open in your browser. Return to this document by clicking on Acrobat Reader again.

## **Methods**

Volunteers<sup>1</sup> were recruited during the summer and early fall of 2002 to observe fish in streams throughout the Lake Washington Watershed<sup>2</sup> and streams on Vashon Island. The 151 volunteers (151 individuals or pairs, totaling 176 people plus 2 classrooms) who surveyed in the Lake Washington Watershed and Vashon, plus 21 people who observed outside the project area, are listed in Table 1.

Table 1. Volunteer observers for the 2002 Salmon Watcher Program.

Ann Aagaard Bill Conner Lois Hudson Mark & Sherry Abbott Deb Crawford Ruth Ihlenfeldt Susan Adamson Brian Curmnins Marc Imlay Staci Adman Nancy Daar AJ Jackson Leonardo Amorelli James & Edna Dam Barbara Johns Dennis Anderson Sarah Dammrose Dennis Johnson Suzanne Anderson Carolyn Davids Barbara Jurgens Jill & Murray Andrews Carol Davis Monika Kaetz Chad Armour Noah Davis Pam Kelly Russ Atkins Stacey DeAmicis Kate Klein Frank Backus Alyse & Dennis DeKraker Donna Klemka Larry Ball Paula DeLucia Cheryl Klinker Jeannette Banobi Alix Despard Janusz Komorowski Ed Barnes Barbara Dickson Sharon Kunz Cathleen Barry Chuck Dolan Yvonne & Joel Kuperberg Jim & JoAnn Beaumont V. & Edward Dougherty Jean & Pete Belits Gary & Bob Emerson Wayne Lamm Bryant Bickmore Mike Erickson Dierdre Larson & Meg Mathis Kai Billmaier Zack Fabish Michael Laurie Gene Bisbee Sara & Richard Farmer June Lew Sara Bogard Mary Ellen Flanagan Lynne Lew Sara Bogard Mary Ellen Flanagan Lynne Lew Shelike Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis Lida Gonzalez Mark Martino & Colleen Cullen Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Mark Martino & Colleen Cullen Mike Masson Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Ann Celleen Calra & Dinei Florencio Stacey Mullins-Jensen JoAnn Napier	_			
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Jim & JoAnn Beaumont Jean & Pete Belits Jean & Pete Belits Jean & Pete Belits Bryant Bickmore Mike Erickson Mike Erickson Mike Erickson Dierdre Larson & Meg Mathis Michael Laurie  Gene Bisbee Sara & Richard Farmer June Lauritzen Sara Bogard Mary Ellen Flanagan Lynne Lew Liz Bohlin Sybille Fleischmann Cathy Bohlke Carla & Dinei Florencio Mamie & Chuck Bolender Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Amy Carey Janete Miller Janete Mollis Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Ed Barnes	Barbara Dickson	Sharon Kunz	
Jean & Pete Belits Gary & Bob Emerson Wayne Lamm Bryant Bickmore Mike Erickson Dierdre Larson & Meg Mathis Kai Billmaier Zack Fabish Michael Laurie Gene Bisbee Sara & Richard Farmer June Lauritzen Sara Bogard Mary Ellen Flanagan Lynne Lew Liz Bohlin Sybille Fleischmann Ginny Lodwig Cathy Bohlke Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Cathleen Barry	Chuck Dolan	Yvonne & Joel Kuperberg	
Bryant Bickmore Mike Erickson Dierdre Larson & Meg Mathis Kai Billmaier Zack Fabish Michael Laurie Gene Bisbee Sara & Richard Farmer June Lauritzen Sara Bogard Mary Ellen Flanagan Lynne Lew Liz Bohlin Sybille Fleischmann Ginny Lodwig Cathy Bohlke Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Jim & JoAnn Beaumont	V. & Edward Dougherty	Ann Kurtz	
Kai BillmaierZack FabishMichael LaurieGene BisbeeSara & Richard FarmerJune LauritzenSara BogardMary Ellen FlanaganLynne LewLiz BohlinSybille FleischmannGinny LodwigCathy BohlkeCarla & Dinei FlorencioSteve LongMamie & Chuck BolenderAna FoukimoanaOdin Lonning & Ann StatelerSherry Bottoms & Liz LewisWilliam "David" FryJosh LuehmannLee BowenMichel GallegosBarbara LynumMargie BradleyJanet GermeraadRon MarshallBrian BrennoLinda GonzalezMark Martino & Colleen CullenJanet BroadusJohn & Sally GummesonMike MasonRobin BuerkiGeorge HadleyJim McRobertsCarolyn BurkhardtJaecob HagemanLouis & Adrienne MendozaTracy BuryHarbor SchoolSusan MeyerGene BuzzelliJim HearnAlan MeyersEarl CaditzHeidi HettichRay MielbrechtAmy CareyAdam HirschDavid MillerJaneene ChilcoatKathy HollisYoshihiro MonzakiRebecca ClarkLon HooverStacey Mullins-Jensen	Jean & Pete Belits	Gary & Bob Emerson	Wayne Lamm	
Gene Bisbee Sara & Richard Farmer June Lauritzen Sara Bogard Mary Ellen Flanagan Lynne Lew Liz Bohlin Sybille Fleischmann Ginny Lodwig Cathy Bohlke Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Bryant Bickmore	Mike Erickson	Dierdre Larson & Meg Mathis	
Sara Bogard Mary Ellen Flanagan Lynne Lew Liz Bohlin Sybille Fleischmann Ginny Lodwig Cathy Bohlke Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Kai Billmaier	Zack Fabish	Michael Laurie	
Liz Bohlin Sybille Fleischmann Ginny Lodwig Cathy Bohlke Carla & Dinei Florencio Steve Long Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Gene Bisbee	Sara & Richard Farmer	June Lauritzen	
Cathy Bohlke Carla & Dinei Florencio Steve Long  Mamie & Chuck Bolender Ana Foukimoana Odin Lonning & Ann Stateler  Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann  Lee Bowen Michel Gallegos Barbara Lynum  Margie Bradley Janet Germeraad Ron Marshall  Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen  Janet Broadus John & Sally Gummeson Mike Mason  Robin Buerki George Hadley Jim McRoberts  Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza  Tracy Bury Harbor School Susan Meyer  Gene Buzzelli Jim Hearn Alan Meyers  Earl Caditz Heidi Hettich Ray Mielbrecht  Amy Carey Adam Hirsch David Miller  Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki  Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Sara Bogard	Mary Ellen Flanagan	Lynne Lew	
Mamie & Chuck BolenderAna FoukimoanaOdin Lonning & Ann StatelerSherry Bottoms & Liz LewisWilliam "David" FryJosh LuehmannLee BowenMichel GallegosBarbara LynumMargie BradleyJanet GermeraadRon MarshallBrian BrennoLinda GonzalezMark Martino & Colleen CullenJanet BroadusJohn & Sally GummesonMike MasonRobin BuerkiGeorge HadleyJim McRobertsCarolyn BurkhardtJaecob HagemanLouis & Adrienne MendozaTracy BuryHarbor SchoolSusan MeyerGene BuzzelliJim HearnAlan MeyersEarl CaditzHeidi HettichRay MielbrechtAmy CareyAdam HirschDavid MillerJaneene ChilcoatKathy HollisYoshihiro MonzakiRebecca ClarkLon HooverStacey Mullins-Jensen	Liz Bohlin	Sybille Fleischmann		
Sherry Bottoms & Liz Lewis William "David" Fry Josh Luehmann Lee Bowen Michel Gallegos Barbara Lynum Margie Bradley Janet Germeraad Ron Marshall Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Cathy Bohlke	Carla & Dinei Florencio		
Lee BowenMichel GallegosBarbara LynumMargie BradleyJanet GermeraadRon MarshallBrian BrennoLinda GonzalezMark Martino & Colleen CullenJanet BroadusJohn & Sally GummesonMike MasonRobin BuerkiGeorge HadleyJim McRobertsCarolyn BurkhardtJaecob HagemanLouis & Adrienne MendozaTracy BuryHarbor SchoolSusan MeyerGene BuzzelliJim HearnAlan MeyersEarl CaditzHeidi HettichRay MielbrechtAmy CareyAdam HirschDavid MillerJaneene ChilcoatKathy HollisYoshihiro MonzakiRebecca ClarkLon HooverStacey Mullins-Jensen	Mamie & Chuck Bolender	Ana Foukimoana	Odin Lonning & Ann Stateler	
Margie Bradley Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Mark Mason Mike	Sherry Bottoms & Liz Lewis	William "David" Fry	Josh Luehmann	
Brian Brenno Linda Gonzalez Mark Martino & Colleen Cullen Janet Broadus John & Sally Gummeson Mike Mason Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Lee Bowen	Michel Gallegos	Barbara Lynum	
Janet Broadus  Robin Buerki  Carolyn Burkhardt  Tracy Bury  Gene Buzzelli  Earl Caditz  Amy Carey  Janet Broadus  John & Sally Gummeson  Mike Mason  Jim McRoberts  Louis & Adrienne Mendoza  Susan Meyer  Susan Meyer  Alan Meyers  Ray Mielbrecht  Ray Mielbrecht  David Miller  Janeene Chilcoat  Kathy Hollis  Rebecca Clark  Lon Hoover  Mike Mason  Mike Mason  Jim McRoberts  Louis & Adrienne Mendoza  Susan Meyer  Ray Mielbrecht  Ray Mielbrecht  David Miller  Yoshihiro Monzaki  Stacey Mullins-Jensen	Margie Bradley	Janet Germeraad	Ron Marshall	
Robin Buerki George Hadley Jim McRoberts Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Brian Brenno	Linda Gonzalez	Mark Martino & Colleen Cullen	
Carolyn Burkhardt Jaecob Hageman Louis & Adrienne Mendoza Tracy Bury Harbor School Susan Meyer Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Janet Broadus	John & Sally Gummeson	Mike Mason	
Tracy Bury Harbor School Susan Meyer  Gene Buzzelli Jim Hearn Alan Meyers  Earl Caditz Heidi Hettich Ray Mielbrecht  Amy Carey Adam Hirsch David Miller  Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki  Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Robin Buerki	George Hadley	Jim McRoberts	
Gene Buzzelli Jim Hearn Alan Meyers Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Carolyn Burkhardt	Jaecob Hageman	Louis & Adrienne Mendoza	
Earl Caditz Heidi Hettich Ray Mielbrecht Amy Carey Adam Hirsch David Miller Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Tracy Bury	Harbor School	Susan Meyer	
Amy CareyAdam HirschDavid MillerJaneene ChilcoatKathy HollisYoshihiro MonzakiRebecca ClarkLon HooverStacey Mullins-Jensen	Gene Buzzelli	Jim Hearn	Alan Meyers	
Janeene Chilcoat Kathy Hollis Yoshihiro Monzaki Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Earl Caditz	Heidi Hettich	Ray Mielbrecht	
Rebecca Clark Lon Hoover Stacey Mullins-Jensen	Amy Carey	Adam Hirsch	David Miller	
	Janeene Chilcoat	Kathy Hollis	Yoshihiro Monzaki	
Danielle Clarneaux Tiffany Hoyopatubbi JoAnn Napier	Rebecca Clark	Lon Hoover	Stacey Mullins-Jensen	
	Danielle Clarneaux	Tiffany Hoyopatubbi	JoAnn Napier	

<sup>1</sup> "Volunteers" are defined as individuals, pairs, or groups who surveyed at a given location.

<sup>&</sup>lt;sup>2</sup> In this document, the Lake Washington Watershed means all waters draining through the Ballard Locks, and the subbasins of the Lake Washington Watershed are referred to as basins (e.g., Issaquah Creek Basin).

#### Table 1. Continued. Volunteer observers for the 2002 Salmon Watcher Program.

Dana & Brittney Nelson Dick & Mary Schaetzel Stephanie Timm Jane Neubauer Bonnie Schein Kevin Tobin Yoshiko Otonari Ed Schein Sue Trevathan Barbara Owens Carrie & Drew Schwitters Alice Turner Deloa Parrish Christopher Seiber Ann J. Van Der Geld Joyce Paul Lisa Sheets Whitney VanLoos Carolyn Peterson Kathryn Sheldon Reed Vawter Larry Poore Patty Shelton Art & Elsa Vetter **Emily Pruiksma** Diane Slota Anna Wahlman Janis & Nicholas Smith Jo Prussia **Tracie Walters** Kelly Rau Julie Smith Craig & Eva Weaver Krista Rave-Perkins Rebecca & Adam Smith Doug Weber David Reitz Stephanie Smith Beth Wieman Miyoko Rokumoto & Harry Warren Smith **Emily & Matt Williams** Blevins

JR Rothschild Susan & Jim Sproull J.V. Wilson

Michael Russell Kirk Stauffer Maggie & Brian Windus

Kathleen Ryan Dave Taylor Fritz Wollett

Steve Saepoff Matthew Taylor Woodridge Elementary School

Caroline Schaefer K.Terry Thorsos Connie Wurm

### **Volunteer Training**

Agency staff held a total of nine classroom training sessions in 2002. Field training sessions were conducted for trained volunteers at Cottage Lake Creek, Issaquah Creek, and the Sammamish River. A field training session was also held on Vashon Island at Judd Creek. Additionally, Snohomish County and Friends of the Hylebos Wetlands held separate training sessions for their respective Salmon Watcher programs, which are off-shoots of the Lake Washington Watershed program reported herein.

All volunteers were taught to identify adult spawning salmon species with a slide presentation and lecture. The slide show was also placed on King County's web site so volunteers could review it at their convenience. During the training sessions, volunteers were asked to sign up for one or more sites to survey. They were given salmon identification materials, including color adult species identification cards and spawner timing charts. Volunteers were taught how to fill out and return data forms. Volunteers were also given a laminated card with contact information for an environmental hotline as well as numbers to call for various situations that might arise in the field, including drainage issues, fish kills, and suspicion of toxic pollutants.

Survey locations were prioritized by staff from each cooperating jurisdiction based on the need for information; however, sites were surveyed based on volunteer availability. Volunteers were assigned to stream locations near their homes or customary walking places whenever possible. Not all sites watched were prioritized by agency staff: some sites were watched because of the close proximity to a volunteer's home. Volunteers were instructed to stay on public property (bridges, parks, etc.) unless they gained permission from the landowners to enter private property or the survey location was on their own property. Figure 2 shows all the sites watched during the 2002 fall spawning season.

# Figure 2. Sites in the Lake Washington Basins and Vashon Island surveyed by Salmon Watcher volunteers in 2002

(http://dnr.metrokc.gov/wlr/waterres/salmon/Maps/2002/0306SurveyedSites.pdf). This link will open in your browser. Return to this document by clicking on Acrobat Reader again.

#### **Data Collection**

Surveys were conducted between August 22, 2002, and February 17, 2003, though most surveys began in September and were concluded in December 2002. Volunteers were asked to watch at their survey sites for at least 15 minutes, twice per week, and record any adult salmonids they observed. Actual survey frequency and duration varied greatly among volunteers: the average survey frequency was biweekly but ranged from daily to monthly.

If a volunteer surveyed the same site more than one time on the same day, the highest fish count was used; however, often more than one volunteer surveyed the same site on a single day and both counts were used. Unidentified fish were counted and described when possible. Volunteers counted all live and dead adult salmonids they observed. Volunteers were asked to report only once those dead fish observed on more than one occasion, and to note subsequent observations of the same fish in their comments.

Volunteers were asked if they could tell whether the fish they saw had an adipose fin, and they were asked if they noticed anything at their site that needed to be reported and whether they reported it. Volunteers were asked to note how many citizens they came into contact with during their streamside duties. All data were recorded onto field data forms (Appendix B), which were mailed to Salmon Watcher staff on a monthly basis.

Beginning in 2002, in addition to the data sheets, volunteers were asked to fill out a "First Fish ID" form. This form had several multiple-choice questions about various key characteristics for identifying fish. Volunteers were asked to fill one of these forms out the first time they saw a new species and to turn the forms in with their data.

## **Quality Assurance/Quality Control**

Several means were used to assure that the data collected from volunteers were as accurate and consistent as possible during all phases of the program. Volunteers were provided with training by fish experts: data included in this report were collected either by returning volunteers or new volunteers who attended one of the training sessions for the 2002 season (most but not all returning volunteers also attended a training session in 2002 as a refresher). Volunteers were provided laminated fish identification cards and a packet of training materials with fish identification information in it. Duplicate as well as additional fish identification materials were placed on the Internet. Contact persons were made available to volunteers to answer questions and verify species identification when necessary; volunteers were encouraged to call upon these individuals if they were unsure of species identification.

Staff of the cooperating jurisdictions processed the data sheets and screened them for anything requiring immediate attention, such as an unusual fish sighting or potential water quality problems. If an unusual fish sighting was noticed on a data form, agency staff contacted the volunteer to further inquire about what characteristics they used to identify fish in an effort to ensure as much accuracy as possible. The First Fish ID forms were intended to provide another means by which fish identifications could be checked and verified. Local jurisdiction staff would also follow up on any other reported unusual circumstances as they judged appropriate.

Following data entry, the figures were verified at least once, but typically twice, by different agency staff to ensure accuracy, as well as catch anything that might need addressing. At least one of the data reviewers was familiar with the basins and the typical fish runs for the basins.

Because of the limitations of data usage from a volunteer program such as this (Limitations of Volunteer Data, page 25) and despite quality control measures, the data are intended to be used only to make preliminary evaluations of the distribution of spawning salmonids in the Lake Washington Watershed and Vashon streams. These data cannot be used to infer population structure or size.

#### **Results and Discussion**

In 2002, a total of 175 sites on 66 streams were surveyed by 171 volunteers (Table 2).

Table 2. Numbers of sites, streams, and volunteers involved in the 2002 spawning season.

Area	# sites	# streams	# volunteers
Lake Washington Watershed	139	52	132
Vashon Island	17	6	19
Seattle	9	2	13
Other	10	6	7
Total	175	66	171

In 2002, 64 out of 132 volunteers (48.48 percent) in the Lake Washington Watershed were returnees (Figure 3). Of the 64 returnees, 2 pairs of volunteers have surveyed every year of the program. On Vashon Island, 8 out of 19 volunteers (42.11 percent) were returnees.

Figure 3. Number of new and returning volunteers surveying in the Lake Washington Watershed for each year of the Salmon Watcher Program.

